

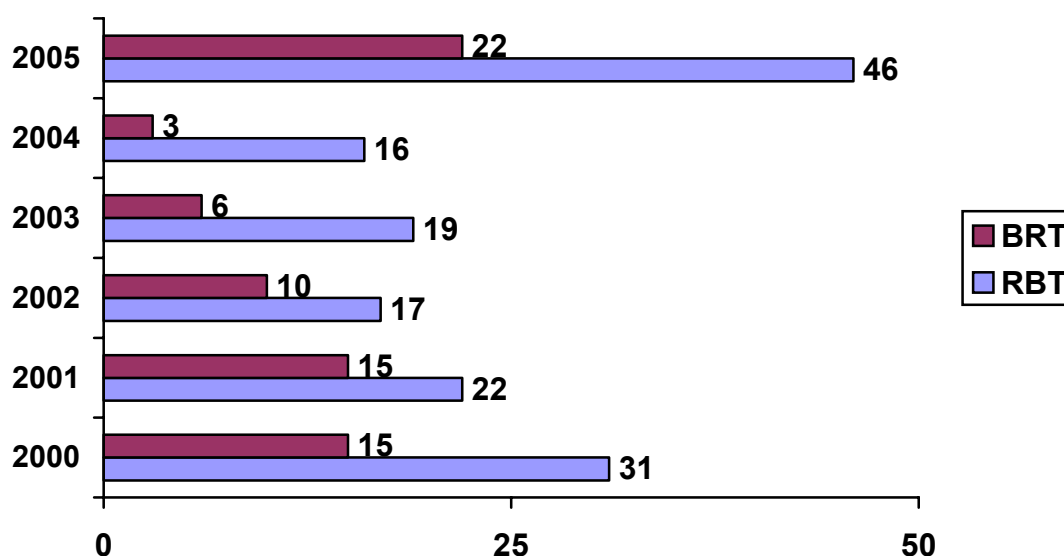


Whitetop Laurel Creek Special Regulation Area 2006

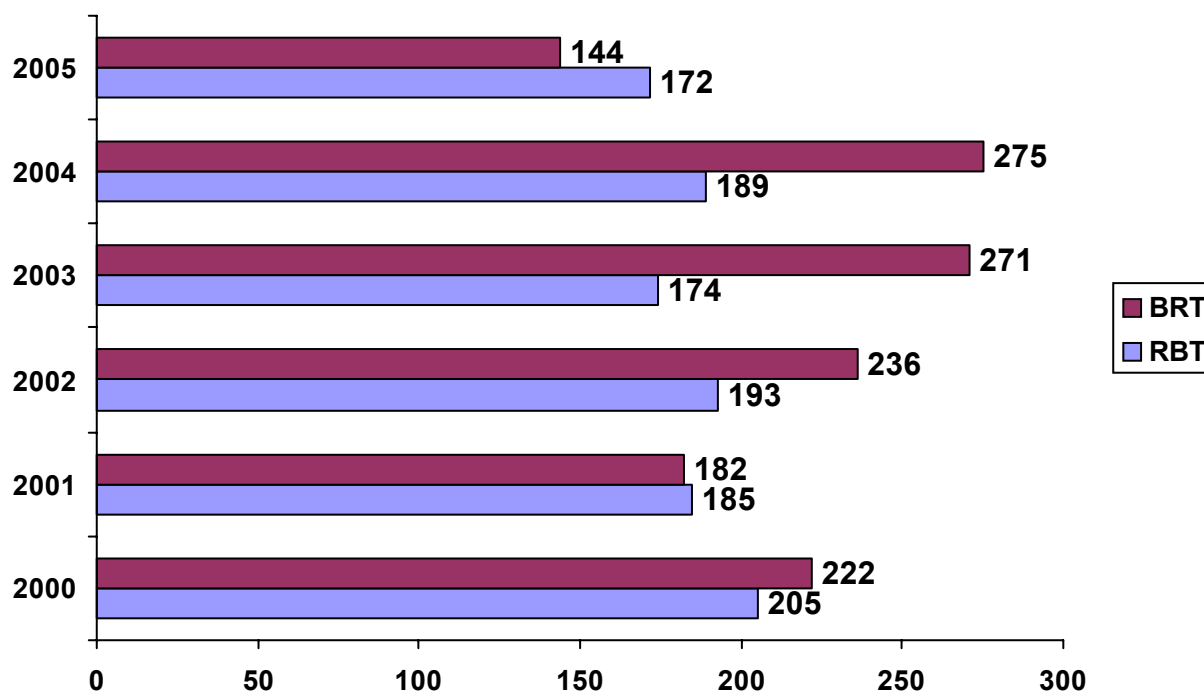
Qualitative sampling

- Four sampling sites, approximately 135-m each, were chosen for routine fish data collection. The sites were located in the special regulation section of Whitetop Laurel Creek and are sampled annually as part of ongoing fish monitoring and management. Collections were made using one or two bank mounted georator units.
- A total distance of 540-m was sampled from the combined sampling sites (4) within the special regulation sections of Whitetop Laurel Creek. Data collected on rainbow trout indicated there were approximately 0.46 rainbow trout collected per meter (N = 252). The average size of the rainbow trout collected was 172-mm total length, and the average weight was 60-g. Data collected on brown trout indicated that there were approximately 0.22 brown trout collected per meter (N = 122). The average size of the brown trout collected was 144-mm total length, and the average weight was 59-g. The following graphs and table show summary data of rainbow and brown trout from the special regulation areas from 2000-05.

**Rainbow & Brown Trout Abundances in 100-m of the
Special Regulation Areas 2000-05**



Rainbow & Brown Trout Average Size in mm 2000-05

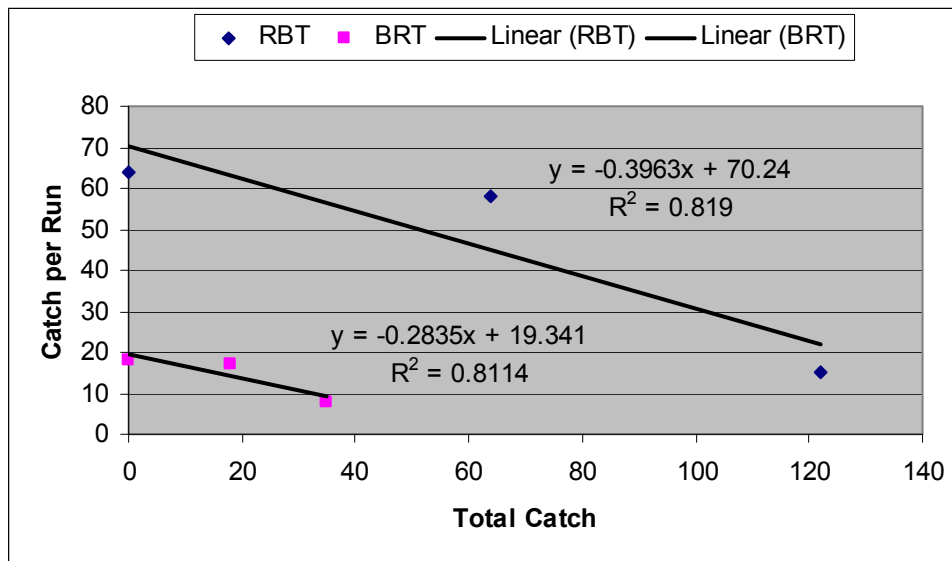


Species and Year, Numbers of Rainbow or Brown Trout Collected, Average Length (mm), Standard Deviation, Length Range (mm), Number of Sampling Sites, Sampling Gear Type, and Distance Sampled in Meters 2000-05

Species/Year	Number Collected	Average Length	St. Dev.	Range- (mm)	# of Sampling Sites	Sampling Gear	Distance Sampled (m)
RBT 2005	252	172.5	65.1	61-438	4	Georator	540
BRT 2005	122	144.6	81.0	26-405			
RBT 2004	89	181.6	53.7	78-276	4	Georator	540
BRT 2004	19	275.9	58.2	200-406			
RBT 2003	101	171.8	56.1	63-306	4	Georator	540
BRT 2003	35	270.5	76.8	110-525			
RBT 2002	92	195.6	53.4	61-285	4	Georator	540
BRT 2002	54	221.7	59.3	93-365			
RBT 2001	122	185.9	56.0	72-290	4	Georator	540
BRT 2001	79	175.6	77.2	86-440			
RBT 2000	169	176.7	57.2	60-305	4	Georator	540
BRT 2000	84	218.2	102.7	86-580			

Quantitative Sampling

One sampling site approximately 135-m long and 5-m wide covering approximately 0.0675-ha surface area was sampled quantitatively (3 pass depletion) using two portable (georator) electrofishing units. In three sampling passes, 137 rainbow trout and 43 brown trout were collected. The average length and weight of rainbow trout collected was 138-mm and 43-g. The average length and weight of brown trout collected was 163-mm and 97-g. Population estimations for rainbow and brown trout within the sampling area were generated using declines in catch per run versus total catch. The population estimates were 177 rainbow and 68 brown trout in the sampling area. Based on average weights and population estimates, biomass estimates are 107 kg/ha for rainbow and 97 kg/ha for brown trout.



Management Recommendations

Future management of the Whitetop Laurel Special Regulation Area will focus on population monitoring of trout populations. Annual fingerling stockings of brown trout was terminated due to natural reproduction.